

Figure 1A

ClustalW DNA Sequence Alignment of *sasp-B* Amplicons
from 38 *Bacillus anthracis* Strains

	1	15	30	45	60	75	90
1 Bapast	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
2 Bare1	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
3 NMRI#67	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
4 NMRI#63	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
5 NMRI#62	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
6 NMRI#60	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
7 NMRI#1	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
8 NMRI#2	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
9 NMRI#4	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
10 NMRI#5	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
11 NMRI#6	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
12 NMRI#10	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
13 NMRI#11	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
14 NMRI#18	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
15 NMRI#19	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
16 NMRI#20	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
17 NMRI#22	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
18 NMRI#23	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
19 NMRI#24	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
20 NMRI#25	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
21 NMRI#26	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
22 NMRI#28	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
23 NMRI#32	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
24 NMRI#35	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
25 NMRI#36	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
26 NMRI#38	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
27 NMRI#39	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
28 NMRI#40	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
29 NMRI#41	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
30 NMRI#42	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
31 NMRI#43	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
32 NMRI#50	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
33 NMRI#52	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
34 NMRI#53	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
35 NMRI#54	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
36 NMRI#55	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
37 NMRI#56	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	
38 NMRI#59	AACAAGGCAACTTCT	GGTGCTAGCATTCAA	AGCACAAATGCTAGT	TATGTTACAGAGTTT	GGGACTGAAACAAT	GTACAAGCAGTAAAA	

Figure 1B

ClustalW DNA Sequence Alignment of *sazp-B* Amplicons
from 38 *Bacillus anthracis* Strains

	91	105 106	120 121	135 136	150 151	165 166	180
1 Bapast	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
2 Barec1	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
3 NMRI#67	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
4 NMRI#63	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
5 NMRI#62	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
6 NMRI#60	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
7 NMRI#1	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
8 NMRI#2	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
9 NMRI#4	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
10 NMRI#5	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
11 NMRI#6	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
12 NMRI#10	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
13 NMRI#11	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
14 NMRI#18	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
15 NMRI#19	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
16 NMRI#20	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
17 NMRI#22	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
18 NMRI#23	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
19 NMRI#24	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
20 NMRI#25	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
21 NMRI#26	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
22 NMRI#28	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
23 NMRI#32	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
24 NMRI#35	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
25 NMRI#36	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
26 NMRI#38	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
27 NMRI#39	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
28 NMRI#40	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
29 NMRI#41	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
30 NMRI#43	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
31 NMRI#43	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
32 NMRI#50	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
33 NMRI#52	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
34 NMRI#53	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
35 NMRI#54	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
36 NMRI#55	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
37 NMRI#56	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	
38 NMRI#59	CAAGCAAAACGCACAA	TCAGAAGCTAAGAAA	GCGCAAGCTTCTGT	GCTAGCATTCAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA	

Insertion region

Figure 1C

ClustalW DNA Sequence Alignment of *sasP*-*B* Amplicons
from 38 *Bacillus anthracis* Strains

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181                               195 196                               210 211                               225 226                               240
1 Bapast ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 13)
2 Barecl ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 14)
3 NMRI#67 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 15)
4 NMRI#63 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 16)
5 NMRI#62 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 17)
6 NMRI#60 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 18)
7 NMRI#1 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 19)
8 NMRI#2 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 20)
9 NMRI#4 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 21)
10 NMRI#5 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 22)
11 NMRI#6 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 23)
12 NMRI#10 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 24)
13 NMRI#11 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 25)
14 NMRI#18 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 26)
15 NMRI#19 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 27)
16 NMRI#20 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 28)
17 NMRI#22 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 29)
18 NMRI#23 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 30)
19 NMRI#24 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 31)
20 NMRI#25 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 32)
21 NMRI#26 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 33)
22 NMRI#28 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 34)
23 NMRI#32 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 35)
24 NMRI#35 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 36)
25 NMRI#36 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 37)
26 NMRI#38 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 38)
27 NMRI#39 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 39)
28 NMRI#40 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 40)
29 NMRI#41 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 41)
30 NMRI#42 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 42)
31 NMRI#43 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 43)
32 NMRI#50 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 44)
33 NMRI#52 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 45)
34 NMRI#53 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 46)
35 NMRI#54 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 47)
36 NMRI#55 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 48)
37 NMRI#56 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 49)
38 NMRI#59 ACTGAACACAGACGTG CATGCTGTGAAAAAA CAAATGACACAATCA GCTGCAAAACAA (SEQ ID NO: 50)

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Figure 2A

Drawing ClustalW Global *scap-B* DNA Sequence Alignment of *Bacillus anthracis*,
Bacillus thuringiensis and *Bacillus cereus* Strains

1 NMRI#15	1	15 16	30 31	45 46	60 61	75 76	90
2 1B	AACAAAGGCAACTTCT	GGCGCTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
3 003	AACAAAGGCAACTTCT	GGCGCTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
4 III	AACAAAGGCAACTTCT	GGCGCTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
5 IV	AACAAAGGCAACTTCT	GGCGCTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
6 BtB	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
7 BtY	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
8 4A1	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
9 BtV	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
10 BtZ	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
11 Beer3	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
12 1B/A	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
13 Beerpub	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
14 BtT	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
15 BtU	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
16 BtS	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
17 BtR	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
18 BtL	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
19 BtO	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
20 BtJ	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
21 412	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
22 BtG	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
23 BtI	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
24 Beer2	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
25 BtC	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
26 BtE2	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
27 BtE4	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
28 BtM	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
29 BtN	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
30 BtN	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
31 BtP	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
32 BtX	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
33 Beer1	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
34 BtQ	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
35 BtW	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
36 Bc #57	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	
37 Ba #11	AACAAAGGCAACTTCT	GGTGTAGCATTTCAA	AGTACAAATGCTAGT	TATGTTACAGAGTTT	TCAACTGAAACAGAT	GTACAAAGCAGTAAAA	

Figure 2B
Drawing ClustalW Global *clasp-B* DNA Sequence Alignment of *Bacillus anthracis*,
Bacillus thuringiensis and *Bacillus cereus* Strains

	91	105	106	120	121	135	136	150	151	165	166	180
1 NMRI#15	CAAGCAAAATGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
2 1B	CAAGCAAAATGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
3 003	CAAGCAAAATGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
4 III	CAAGCAAAATGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
5 IV	CAAGCAAAATGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
6 BtB	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
7 BtY	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
8 4A1	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
9 BtV	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
10 BZ	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
11 Beer3	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
12 1B/A	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
13 Beerpub	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
14 BtT	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
15 BtU	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
16 BS	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
17 BtR	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
18 BtL	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
19 BtO	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
20 BtJ	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
21 4J2	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
22 BtG	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
23 BtI	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
24 Beer2	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
25 BtC	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
26 BtE2	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
27 BtE4	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
28 BtK	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
29 BtM	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
30 BtN	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
31 BtP	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
32 BtX	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
33 Beer1	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
34 BtQ	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
35 BtW	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
36 NMRI#57	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				
37 NMRI#11	CAAGCAAAACGCACAA	TCAGAAAGCAAAAGAAA	GCACAAGCTTCTGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT	GGTACTGAATTTGCA				

Figure 2C

Drawing ClustalW Global *sasp-B* DNA Sequence Alignment of *Bacillus anthracis*,
Bacillus thuringiensis and *Bacillus cereus* Strains

1 NMRI#15	181	195 196	210 211	225 226	240
2 1IB	ACTGAAACAGATGTG CATGCTGTGAAAAAA CAAATGCACAATCA GCTGCAAAACAA (SEQ ID NO: 51)				
3 003	ACTGAAACAGATGTG CATGCTGTGAAAAAA CAAATGCACAATCA GCTGCAAAACAA (SEQ ID NO: 52)				
4 III	ACTGAAACAGATGTG CATGCTGTGAAAAAA CAAATGCACAATCA GCTGCAAAACAA (SEQ ID NO: 53)				
5 IV	ACTGAAACAGATGTG CATGCTGTGAAAAAA CAAATGCACAATCA GCTGCAAAACAA (SEQ ID NO: 54)				
6 BIB	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCACAATCA GCTGCAAAACAA (SEQ ID NO: 55)				
7 BIV	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCACAATCA GCTGCAAAACAA (SEQ ID NO: 56)				
8 4A1	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 57)				
9 BIV	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 58)				
10 BIZ	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 59)				
11 Beer3	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 60)				
12 1B/A	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 61)				
13 Beerpub	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 62)				
14 B1T	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 63)				
15 B1U	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 64)				
16 B1S	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 65)				
17 B1R	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 66)				
18 B1L	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 67)				
19 B1O	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 68)				
20 B1J	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 69)				
21 412	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 70)				
22 B1G	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 71)				
23 B1I	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 72)				
24 Beer2	ACTGAAACAGACGTG CATTCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 73)				
25 B1C	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 74)				
26 B1E2	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 75)				
27 B1E4	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 76)				
28 B1K	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 77)				
29 B1M	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 78)				
30 B1N	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 79)				
31 B1P	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 80)				
32 B1X	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 81)				
33 Beer1	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 82)				
34 B1Q	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 83)				
35 B1V	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 84)				
36 NMRI#57	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCTAAGTCA GCTGCAAAACAA (SEQ ID NO: 85)				
37 NMRI#11	ACTGAAACAGACGTG CATGCTGTGAAAAAA CAAATGCACAATCA GCTGCAAAACAA (SEQ ID NO: 86)				

Figure 3 *Bacillus globigii* specific PCR targeting *Bg* sasp-gamma

Alignment of *B. subtilis* sasp-gamma sequence (from GeneBank) with *B. globigii* sequence (upper strand) showing the location of the primer sequences and how their sequence compares to the (known) *B. subtilis* sequence:

